GB/T 19630.1-2011 Organic Products - Part 1: Production

GB/T 19630.1—2011 有机产品 第1部分：生产

General Administration of Quality Supervision, Inspection and Quarantine of the People’s Republic of China
Standardization Administration of the People’s Republic of China

Translated by Chemlinked
Date of Publication: Dec. 5, 2011
Date of Implementation: Mar. 1, 2012
Disclaimer

This is an unofficial document provided by ChemLinked (chemlinked.com), a platform of REACH24H Consulting Group, as an informational service to assist non-Chinese companies to better understand the Asia Pacific regulatory environment and importation compliance requirements especially China Chemical, Cosmetic, Food and Agrochemical regulatory issues.

This document should only be used as a reference and in case of any discrepancy between the English and Chinese versions the original Chinese version shall prevail.

Nondisclosure:
You may not disclose this document to anyone else without the written permission of ChemLinked.

For further clarification and questions, you can read our Privacy Policies or contact us at food@chemlinked.com
National Standard of the People’s Republic of China

GB/T 19630.1-2011

In Replacement of GB/T 19630.1-2005

Organic Products – Part 1: Production

有机产品 第1部分：生产

Date of publication: 2011-12-05

Date of implementation: 2012-03-01

Issued by:

General Administration of Quality Supervision, Inspection and Quarantine of the People’s Republic of China

Standardization Administration of the People’s Republic of China
Table of Content

Foreword.................................................................................................................................VII
Introduction .............................................................................................................................X
Organic Products Part 1: Production...................................................................................1
  1 Scope.................................................................................................................................1
  2 Normative References.......................................................................................................1
  3 Terms and Definitions .......................................................................................................1
    3.1 Organic agriculture .......................................................................................................1
    3.2 Organic product............................................................................................................2
    3.3 Conventional ................................................................................................................2
    3.4 Conversion period ........................................................................................................2
    3.5 Parallel production ........................................................................................................2
    3.6 Buffer zone ...................................................................................................................2
    3.7 Input ...............................................................................................................................2
    3.8 Animal life cycle ..........................................................................................................2
    3.9 Homeopathic treatment ...............................................................................................2
    3.10 Propagating material ..................................................................................................3
    3.11 Biodiversity ................................................................................................................3
    3.12 Genetic engineering/genetic modification .................................................................3
    3.13 Genetically engineered organism/genetically modified organism .........................3
    3.14 Irradiation; ionizing radiation ....................................................................................3
  4 General Principles..............................................................................................................3
    4.1 Scope of production unit ..............................................................................................3
    4.2 Conversion period .........................................................................................................4
    4.3 Genetically modified organisms/genetically modified organism.............................4
    4.4 Irradiation; ionizing radiation .....................................................................................4
    4.5 Input ...............................................................................................................................4
  5 Plant Production ................................................................................................................5
    5.1 Conversion period .........................................................................................................5
5.2 Parallel production ................................................................. 6
5.3 Environmental requirements of origin ....................................... 6
5.4 Buffer zone ........................................................................... 6
5.5 Seed and propagating material ................................................ 7
5.6 Cultivation ............................................................................ 7
5.7 Soil fertility management .......................................................... 7
5.8 Disease, pest and weed control ............................................... 8
5.9 Other plant production .............................................................. 9
5.10 Sorting, cleaning, and other post–harvest handling ................. 10
5.11 Contamination control ............................................................ 10
5.12 Soil and water conservation and biodiversity protection .......... 11
6 Wild Plant Collection ................................................................. 11
7 Edible Fungus and Mushroom Cultivation .................................... 11
8 Livestock and Poultry Breeding .................................................. 12
8.1 Conversion period ................................................................. 12
8.2 Parallel production ................................................................. 13
8.3 Introduction of livestock and poultry ........................................ 13
8.4 Feed .................................................................................... 14
8.5 Husbandry conditions ............................................................. 16
8.6 Disease prevention and veterinary treatment ........................... 18
8.7 Non–therapeutic operations .................................................... 19
8.8 Reproduction ....................................................................... 19
8.9 Transportation and slaughtering .............................................. 20
8.10 Pest control ........................................................................ 21
8.11 Environmental impacts .......................................................... 22
9 Aquaculture ............................................................................ 22
9.1 Conversion period ................................................................ 22
9.2 Location selection for an aquacultural farm .............................. 23
9.3 Water quality ................................................................. 23
9.4 Aquaculture ................................................................. 23
9.5 Fishery .............................................................................. 26
9.6 Transportation of live aquatic products .................................. 26
9.7 Slaughter of Aquatic animals .................................................. 26
9.8 Environmental impacts ......................................................... 27
10 Beekeeping and Bee Products .................................................. 27
10.1 Conversion period ............................................................. 27
10.2 Introduction of bees ........................................................... 27
10.3 Scope of honey gathering ....................................................... 28
10.4 Feeding ............................................................................. 28
10.5 Disease and pest control ......................................................... 29
10.6 Queen bee and colony breeding .............................................. 29
10.7 Beeswax and beehive ............................................................ 30
10.8 Bee products harvesting and treatment ...................................... 30
10.9 Storage ............................................................................ 31
11 Packaging, Storage and Transportation ........................................ 31
11.1 Packaging ......................................................................... 31
11.2 Storage ............................................................................ 32
11.3 Transportation .................................................................. 32
Annex A .................................................................................. 33
(Normative) ............................................................................. 33
Inputs Permitted for Use in Organic Plant Production ...................... 33
  Table A.1 Substances for soil fertilizing and improvement purposes ...... 33
  Table A.2 Plant Protection Products ............................................ 35
  Table A.3 Detergents and Disinfectants .......................................... 36
Annex B .................................................................................. 38
Substances Allowed for Use in Organic Animal Breeding

Table B.1 Feed Additives and Substances for Animal Nutrition

Table B.2 Detergents and Disinfectants Allowed for Use in Animal Breeding

Table B.3 Permitted Substances for Pest and Disease Control in Beekeeping

Annex C

Guidelines for Evaluation of Other Inputs Used in Organic Production

Annex D

Housing and Exercise Space for Different Types of Animals in Livestock and Poultry Breeding

Table D.1 Requirements regarding livestock breeding and exercise space

Table D.2 Requirements regarding poultry breeding and exercise space

References

Table A.1 Substances for soil fertilizing and improvement purposes

Table A.2 Plant Protection Products

Table A.3 Detergents and Disinfectants

Table B.1 Feed Additives and Substances for Animal Nutrition

Table B.2 Detergents and Disinfectants Allowed for Use in Animal Breeding

Table B.3 Substances for Pest and Disease Control Allowed for Use in Beekeeping

Table D.1 Requirements regarding livestock breeding and exercise space

Table D.2 Requirements regarding poultry breeding and exercise space
Foreword

The GB/T 19630 *Organic Products* is divided into four parts:

— Part 1: Production;
— Part 2: Processing;
— Part 3: Labeling and Marketing;
— Part 4: Management System.

This is Part 1 of GB/T 19630.

This Part was drafted according to the rules given in GB/T 1.1–2009.

This Part replaces GB/T 19630.1–2005 *Organic Products Part 1: Production*.

Compared with GB/T 19630.1–2005, the main technical changes made to this Part are as follows:

— “Table of contents” has been added;
— “Introduction” has been added;
— some terms and definitions have been added, including “Animal life cycle” (see 3.8), “Propagating materials” (see 3.10), “Genetic engineering (genetic modification)” (see 3.12) and “Irradiation; ionizing radiation” (see 3.14);
— some terms and definitions have been deleted, including “Allowed; permitted”, “Restricted”, and “Prohibited” (see 3.11, 3.12, 3.13 in Edition 2005);
— “General Principles” has been added (see 4);
— requirements regarding the maximum residue levels of prohibited substances in certified products have been more rigorous (see 4.5.6);
— requirements regarding annual seedlings have been modified (see 5.5.3);
— requirements regarding facility cultivation (see 5.9.1) and sprouts (see 5.9.2) have been added;
— auxiliary materials allowed for use in the cultivation of edible fungi and mushrooms have been added (see 7.3);
— “Sorting, cleaning and other post–harvest handling” has been added (see 5.10);
— provisions regarding the age (in days) of meat chickens when introduced have been modified (see 8.3.1);
— some provisions under Section “Introduction of livestock and poultry” have
been modified to specify that for pigs, sheep and goats, a maximum of 20% of the total organically-reared female adults of the same species may be introduced annually (see 8.3.2);

—method for calculating the percentage of roughage, fresh grass, green hay or silage in daily ration has been modified (see 8.4.4);

—weaning periods of pig, sheep and goats have been modified (see 8.4.5);

—provision has been added that the drinking water of livestock and poultry should meet the requirements set forth in GB 5749 [see 8.5.1(e)];

—requirements regarding the fattening stage of bovines for meat production have been added (see 8.5.4);

—Section 9.1.4 c) has been deleted and the relevant provisions thereunder have been moved under 9.1.3 b);

—disinfectants allowed for use in aquaculture have been added (see 9.4.3.3);

—requirements regarding construction of comb foundation with organic beeswax have been added in the requirements specified for conversion of bee farms (see 10.1.2);

—“Introduction of bees” has been added (see 10.2);

—provision “The queen bee of the hive should be produced in the hive” has been deleted (see 10.5.3 in Edition 2005);

—provision that “Harvest of immature honey should be forbidden” has been added (10.8.3);

—location of “General rules for transportation, storage and packaging” has been adjusted (see 11 and 7 in Edition 2005);

—plant protection products as well as their usage conditions have been supplemented (see Table A.2 of Annex A in the current edition and Annex B in Edition 2005);

—List of “Detergents and disinfectants allowed for use in the planting of organic crops” has been added (see Table A.3 of Annex A);

—List of “Additives and substances for animal nutrition” has been added (see Table B.1 of Annex B);

—“Requirements regarding the quality of drinking water for livestock and poultry” have been deleted (see Table C.1 of Annex C in Edition 2005);

—Detergents and disinfectants allowed for use in animal breeding sites have
been supplemented and listed as Table B.2 of Annex B (see Table C.2 of Annex C in Edition 2005);

——Materials allowed for use in the prevention and control of bee diseases have been supplemented and listed in tabular form (see Table B.3 of Annex B in the current edition and 10.4.3 in Edition 2005);

——provision “Lead–based paints should not be used” has been added (see 10.7.6);

——Table on “Requirements regarding housing and exercise space for different types of animals in livestock and poultry breeding” has been added (see Annex D);

——provisions relating to certification management have been deleted, including verification of conversion period, supervision requirements of parallel production, evaluation and approval of inputs and analysis of products applying for certification.

Please note that some provisions in this document may involve patents; the authority issuing this document does not assume the responsibility of identifying any of such patents.

This Part was proposed by the Certification and Accreditation Administration of the People’s Republic of China.

The drafting units of this Part are as follows: Organic Food Development and Certification Center of China, Registration Department of Certification and Accreditation Administration of the People’s Republic of China, China Agricultural University, Tea Research Institute of Chinese Academy of Agricultural Sciences, China Organic Food Certification Center, Hangzhou WIT Assessment Co., Ltd., China National Accreditation Service for Conformity Assessment, Nanjing Agricultural University, Beijing Continental Hengtong Certification Co. Ltd. and China Quality Certification Center.

The main drafters of this Part are as follows: Wang Yungang, Zhang Jibing, Tai Chongmei, Meng Fanqiao, Xiao Xingji, Shi Xiaowei, Qiao Yuhui, Gu Jiali, Shu Aimin, Li Xianjun, Lu Zhenhui, Wang Xia, Hu Yunfeng, Chen Yunhua, Wang Maohua, Xu Na, He Wenlong, Qu Li, Du Xiangge., Zhou Zejiang and Hua Yanli.

The previous edition(s) replaced by this Part is (are) as follows:

Introduction

Organic agriculture should be concerned with interactions between the people and the ecosystem as well as with sustainable management of the environment and natural resources, while giving full play to its production function, namely, providing organic products. Organic agriculture is based on principles of health, ecology, fairness and care. Specifically, the basic principles of organic agriculture include:

— In regards to production, processing, circulation and consumption, organic agriculture maintains and promotes the development of ecological systems and the health of organisms, including health of the soil, plants, animals, microbes, human beings and the earth. Organic agriculture is especially dedicated to the production of high quality nutrient-rich food, so as to serve for the preventative protection of health and welfare. Therefore, organic agriculture should avoid using fertilizers, plant protection products, veterinary medicines and food additives that are obtained from chemical synthesis as far as possible.

— Based on the living ecological systems and matter energy cycles, we should coexist with nature harmoniously, emulate and preserve nature. Organic agriculture adapts production methods in compliance with the local conditions, ecology, culture and production capacity. Through recycling, cyclic utilization and efficient resource and energy management, we can reduce the use of external inputs to maintain and improve environmental quality and protect natural resources.

— Organic agriculture achieves ecological balance through designing of farming systems, establishing biological habitats, and protecting genetic diversity and agricultural biodiversity. In the process of production, processing, circulation and consumption, we can protect and improve our environment, including landscape, climate, habitat, biodiversity, air, soil and water.

— All levels and all groups, including farmers, workers, processors, distributors, traders and consumers, should deal with mutual relations in a fair way. Organic agriculture is committed to the production and supply of adequate, high quality food and other products to provide a good quality of life for everyone, and to contribute for the protection of food safety and poverty eradication.

— Manage the natural and environmental resources in a manner in compliance with social equity and ecological justice and enable such manner to be followed by future generations. Organic agriculture advocates the establishment of open and equal opportunities for production, circulation and trading systems and takes the environmental and social costs into account.
Provide animals with the living conditions that conform to their physiological needs, natural habits and welfares.

In addition to improving efficiency and increasing productivity, it also prevents human health and animal welfares from risks. Due to the limited understanding about ecosystem and agriculture, new technologies and existing technologic methods should be evaluated with caution. In choosing technologies, organic agriculture emphasizes prevention and responsibility to ensure that organic agriculture is healthy, safe and ecologically sound. Organic agriculture refuses unpredictable technologies such as genetic engineering and ionizing radiation so as to avoid introducing risks to health and ecology.
Organic Products Part 1: Production

1 Scope

This Part of GB/T 19630 specifies the general specifications and requirements for organic production of plant, animal and microbial products.

This Part applies to the production and harvest of plants, animals and microorganisms products as well as the processing, packaging, storage and transport after harvesting these products.

2 Normative References

The following normative documents are indispensable for the application of this document. For dated references, only the dated edition of the publications referred to applies; for undated references, the latest edition of the publications referred to applies.

GB 3095 Ambient Air Quality Standards
GB 5084 Standards for Irrigation Water Quality
GB 5749 Standards for Drinking Water Quality
GB 9137 Maximum Allowable Concentration of Pollutants in Atmosphere for Protection Crops
GB 11607 Water Quality Standards for Fisheries
GB 15618 Environmental Quality Standards for Soil
GB 18596 Discharge Standards of Pollutants by Livestock and Poultry Sector
GB/T 19630.2–2011 Organic Products Part 2: Processing
GB/T 19630.4 Organic Products Part 4: Management System

3 Terms and Definitions

Terms and definitions listed hereafter apply to this part.

3.1 Organic agriculture

Organic agriculture is a way of agricultural production that follows natural law and ecology principle to coordinate balance between plant and animal production and adopts a series of sustainable agricultural technologies to achieve a well–sustained and stable agricultural production system, without using any organisms and products obtained from genetic engineering or any
fertilizers, pesticides, growth regulators and feedstuff additives, etc., obtained from chemical synthesis in the production in accordance with specific principles of agricultural production.

3.2 Organic product

Products intended for human consumption and animal feeding which are produced, processed and marketed in accordance with this Standard.

3.3 Conventional

Production systems and products obtained thereby which are not managed in compliance with this Standard.

3.4 Conversion period

Period between the beginning of management in compliance with this Standard and when the production units and products have been certified as organic.

3.5 Parallel production

Simultaneous production or preparation of organic, organic-in-conversion or conventional products of the same or similar, visually indistinguishable varieties in the same production unit.

3.6 Buffer zone

A purposeful and clearly defined transition area between an organic and conventional plot used to restrict or block the drift of prohibited substances from adjacent plots.

3.7 Input

All substances or materials used in the course of organic production.

3.8 Animal life cycle

Period from the date of animal birth until the animal is sold as organic product.

3.9 Homeopathic treatment

A type of disease treatment system in which some substance after being diluted in series is used to treat a disease, while, such substance, when used in large
Subscribe to ChemLinked Food Premium Membership Now

Food Regulatory Intelligence, Market Entry Strategy and Digital Compliance Toolkit

- Note: Final price subject to the quotation on the ChemLinked food website.

<table>
<thead>
<tr>
<th>Membership</th>
<th>Information</th>
<th>Knowledge</th>
<th>Database</th>
<th>E-publication</th>
<th>Other discount (offline conference, on-demand translation &amp; consultation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Free</td>
<td>Limited</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>Limited</td>
</tr>
<tr>
<td>Standard</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Corporate</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Special</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
</tbody>
</table>